

## **Features**

- Carbon element
- Ganging up to 8 sections available
- Knurled and flatted shaft styles
- Audio taper option
- Tracking error within 3 dB
- RoHS compliant\*



# PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

# Electrical Characteristics Standard Resistance Range

## **Environmental Characteristics**

Operating Temperature

End Resistance ......20 ohms max. Tracking Error (-40 dB to 0 dB)......±3 dB

## **Switch Characteristics**

Contact Resistance.....50 milliohms max. Rated Power...........3 A @ 16 VDC Detent Torque...........400 g-cm max. Switch Activation Angle..........50 ° max.

## **Mechanical Characteristics**

Manual Soldering

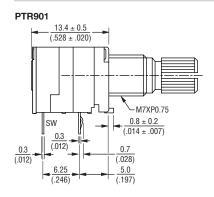
......96.5 Sn/3.0 Ag/0.5 Cu solid wire or no-clean rosin cored wire 270 °C max. for 3 seconds

Wave Soldering

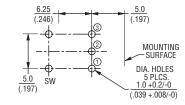
wave Soldering
.......96.5 Sn/3.0 Ag/0.5 Cu solder
with no-clean flux
260 °C max. for 5 seconds
Wash Process ..... Not recommended
Mounting Hardware ...... One flat washer
and one mounting nut supplied

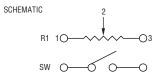
per potentiometer

## **Product Dimensions**



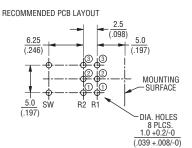
RECOMMENDED PCB LAYOUT

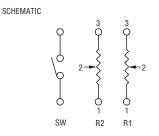




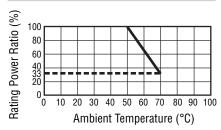
DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

# PTR902 15.8 ± 0.5 (.528 ± .020) M7XP0.75 SW R2 R1 0.8 ± 0.2 (.014 ± .007) 2 PLGS. (.012) 2 PLGS. (.012) 6.25 (.098)





## **Derating Curve**



## Standard Resistance Table

Resistance Code
102
202
502
103
203
503
104
204
504
105



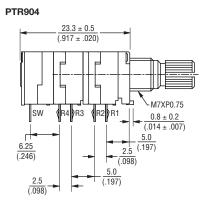
## **Applications**

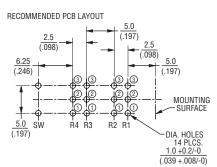
- Audio/TV sets
- Amplifiers/mixers/drum machines/synthesizers/DJ equipment
- Multimedia sound systems
- Portable electronics

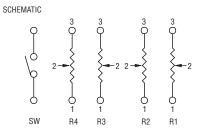
# PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

# BOURNS®

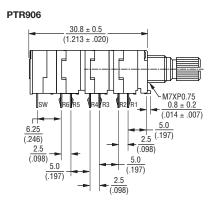
## **Product Dimensions**

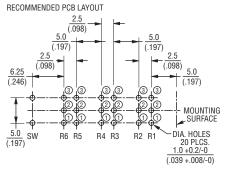


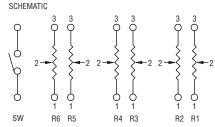


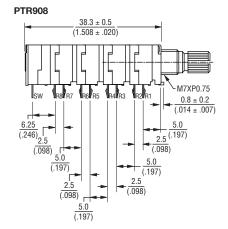


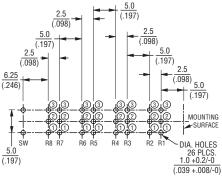
DIMENSIONS: MM (INCHES



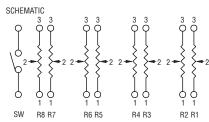






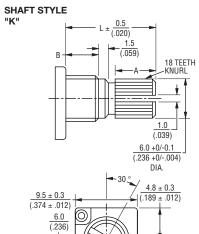


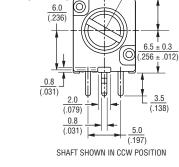
RECOMMENDED PCB LAYOUT



# PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

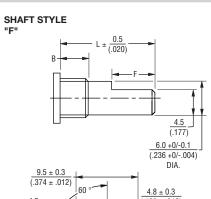
## **Product Dimensions**

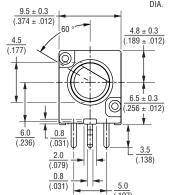




L	15 (.591)	20 (.787)	25 (.984)
В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)
А	<u>6</u> (.236)	10 (.394)	12 (.472)

MM DIMENSIONS: (INCHES)





SHAFT SHOWN IN CCW POSITION

L	(.591)	(.787)	(.984)
В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)
F	<u>7</u> (.276)	12 (.472)	12 (.472)

## **How To Order**



## No. of Sections

- 1 = 1 Section
- 2 = 2 Sections

Rotary Switch

- 3 = 3 Sections 4 = 4 Sections
- 5 = 5 Sections
- 6 = 6 Sections
- 8 = 8 Sections

### Pin Style

- PC Pins vertical/ down facing and ±10 % Total Resistance Tolerance
- PC Pins vertical/ down facing and ±20 % Total Resistance Tolerance

## Center Detent Option • 0 = No Detent

## • 2 = Center Detent

## Standard Shaft Length

- 15 = 15 mm 20 = 20 mm
- 25 = 25 mm

## Shaft Styles

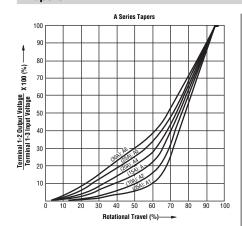
- Knurled Type Shaft (Metal) 18 Toothed Serration Type Flatted Metal Shaft

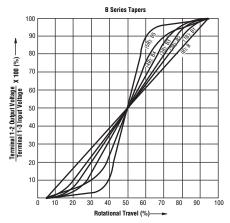
Resistance Taper (See Taper Charts) Taper Series followed by Curve Number

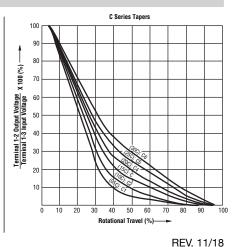
Resistance Code (See Table)

Other shaft styles available.

## **Tapers**







Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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PTR901-2025F-A104				